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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/643,473	08/22/2000	Robert Cahn	1999-0414	8446
759	90 04/29/2004		EXAMINER	
Mr S H Dworetsky			LIN, KENNY S	
AT&T Corp	-		:	
P O Box 4110			ART UNIT	PAPER NUMBER
Middletown, N.	J 07748		2154	• • • •
			DATE MAILED: 04/29/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	<b>—</b>	No.				
	Application No.	Applicant(s)				
Office Action Summany	09/643,473	CAHN, ROBERT				
Office Action Summary	Examiner	Art Unit				
The MAIL INC DATE of this assessmine the same	Kenny Lin	2154				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>08 M</u>	arch 2004.					
;—	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) ⊠ Claim(s) <u>1-8</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdray  5) □ Claim(s) is/are allowed.  6) ⊠ Claim(s) <u>1-8</u> is/are rejected.  7) □ Claim(s) is/are objected to.  8) □ Claim(s) are subject to restriction and/or						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) □ accepted or b) □ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
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Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	es have been received. Es have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage				
Attachment(s)						
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)						
<ul> <li>2) Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date</li> </ul>	Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Patent Application (PTO-152)				

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## **DETAILED ACTION**

1. Claims 1-8 are presented for examination.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Callon, US 6,256,295, in view of "Official Notice".
- 4. As per claims 1 and 5, Callon taught the invention substantially as claimed including a method for monitoring the status of a network, comprising:
  - a. Computing a plurality of measures of network health (col.2, lines 46-60), including unrouted permanent virtual circuits (col.3, lines 1-4, col.5, lines 24-25), permanent virtual circuits whose cost exceeds a prescribed multiple of an optimal route cost (col.3, lines 1-4, 58-67, col.5, lines 11-20), and permanent virtual circuits off an optimal path (col.3, lines 1-4, col.5, lines 3-11) and
  - b. Comparing said measures of network health to a threshold values and selecting a
    restoration route from a plurality of stored restoration routes (col.4, lines 13-19,
    col.5, lines 3-20).

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- 5. Specifically, as per claim 5, Callon further taught to comprise a database storing possible restoration routes and to select a restoration route from a plurality of stored restoration routes (col.4, lines 13-19, col.5, lines 3-20). Callon did not specifically teach to measure a sum of unrouted PVCs, a sum of PVCs whose cost exceeds a prescribed multiple of an optimal route cost and a sum of PVCs off an optimal path. Official Notice is taken that it would have been obvious to calculate a sum of each category of the determined PVCs by simply adding each indication. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the calculation of summing the detected unrouted PVCs, PVCs whose cost exceeds a prescribed multiple of an optimal route cost and PVCs that are off an optimal path in Callon's method in order to determine the total number of PVCs of each detection.
- 6. Claims 2 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Callon as applied to claims 1 and 5 above, and further in view of Bentall et al (hereinafter Bentall), US 6,282,170.
- 7. Bentall was cited in the previous office action.
- 8. As per claims 2 and 6, Callon taught the invention substantially as claimed in claims 1 and 5. Callon did not specifically teach to restore circuits at a rate parameterized by a value P and observe the behavior of the network; and increase the value P in the network to decrease the time customers experience unrouted traffic. Bentall taught a route restoration method that the

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speed for restoring circuits can be adjusted (col.3, lines 37-41, col.4, lines 29-34). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Callon and Bentall because Bentall's teaching of adjusting the rate of route restoration help to speed up or slow down the restoration process in Callon's method according to the available capacity (col.2, lines 29-34).

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- 9. Claims 3-4 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Callon as applied to claims 1 and 5 above, and further in view of Srinivasan et al (hereinafter Srinivasan), US 6,304,549.
- 10. As per claims 3 and 7, Callon taught the invention substantially as claimed in claims 1 and 5. Callon did not specifically teach to monitor said measures to sense when bandwidth needs to be added to the network. Srinivasan taught to monitor said measures to sense when bandwidth needs to be added to the network (col.15, lines 55-64). It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Callon and Srinivasan because Srinivasan's teaching of adjust bandwidth helps Callon's method to increase or decrease bandwidth according to the needs.
- 11. As per claims 4 and 8, Callon taught the invention substantially as claimed in claims 1 and 5. Callon further taught to compute said plurality of measures of network health to identify unrouted, off optimal and seriously misrouted traffic (col.2, lines 46-60, col.3, lines 1-4, 58-67, col.5, lines 3-20, 24-25).

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12. Callon did not specifically teach to derate each edge of the network to have capacity of a

predetermined fraction of real capacity; and to determine if the measures are over a specified

value and if so, then adding capacity to the network. Srinivasan taught to derate each edge of the

network to have capacity of predetermined fraction of real capacity (col.15, lines 43-50, reduce

the allocated bandwidth where the allocated bandwidth is the real capacity); and to determine if

the measures are over a specified value and if so, then adding capacity to the network (col.15,

lines 55-58). It would have been obvious to one of ordinary skill in the art at the time the

invention was made to combine the teachings of Callon and Srinivasan because Srinivasan's

teaching of adjust bandwidth capacity helps Callon's method to increase or decrease bandwidth

according to a value of a predetermined method.

Response to Arguments

13. Applicant's arguments with respect to claims 1-8 have been considered but are moot in

view of the new ground(s) of rejection.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Zaumen et al, US 6,658,479.

Kodialam et al, US 6,321,271.

Tsuchiya et al, US 5,115,495.

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Weston-Dawkes, US 6,487,177.

Seid, US 5,754,543.

Callon, US 5,699,347.

Spiegel et al, US 5,649,108.

Dravida et al, US 5,253,248...

Cheng, US 6,529,498.

- 15. A shortened statutory period for reply to this Office action is set to expire THREE MONTHS from the mailing date of this action.
- 16. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenny Lin whose telephone number is (703)305-0438. The examiner can normally be reached on 8 AM to 5 PM Tuesday to Friday and every other Monday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (703)305-8498. Additionally, the fax numbers for Group 2100 are as follows:

Official Responses:

(703) 872-9306

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)305-6121.

ksl

April 20, 2004

JOHN FOLLANSBEE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100